

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

Notice of Allowability

Application No.

09/166,488

Examiner

Justin I. King

Applicant(s)

BECK ET AL.

Art Unit

2111

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/2/04.
2. ☒ The allowed claim(s) is/are 1-19 and 24-38; now renumbered as 1-34.
3. ☒ The drawings filed on 25 August 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 7/20/04.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

XUAN M. THAI
PRIMARY EXAMINER

TC 2100

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Carole Quinn on 7/20/04.

2. The claims 11, 33-35 have been amended as follows:

Referring to claim 11:

A system for transmitting and receiving data packets formatted in IEEE 1394 standard comprising:

- a controller interfaced to an internal bus,
- a first interface connected to the bus;
- a first device using a broadcast channel and connected to the first interface;
- a second interface connected to the bus;
- a second device using the broadcast channel and connected to the second interface;
- wherein the controller is configured for receiving data transmitted over the bus and routing the data to either the first or second interface based on the received data using an

Art Unit: 2111

identification (ID) header other than a 1394 header, the ID header containing information about the data, and identification information corresponding to one of the first and second devices determined based at least in part on a transmitting device ~~which transmitted the data~~; and wherein the 1394 header is built based on information contained in the ID header.

Referring to claim 33:

A method for use in a system for transmitting and receiving data packets formatted in IEEE 1394 standard, the method comprising steps of:

receiving data from an internal bus, which is connected to a first interface and a second interface, a first device is connected to the first interface and uses a broadcast channel and a second device is connected to the second interface and uses the broadcast channel;

attaching an identification (ID) header to the received data;

retransmitting the received data with the ID header onto the bus;

receiving data with the ID header attached thereto;

interpreting the ID header to identify which of the first or second interfaces should receive the data; and

transmitting the data over the bus to the identified interface, wherein the ID header is other than a 1394 header formatted in IEEE 1394 standard and contains information about the data and identification information corresponding to a recipient device determined based at least in part on a transmitting device ~~which transmitted the data~~; and wherein the 1394 header is built based on information contained in the ID header.

Art Unit: 2111

Referring to claim 34:

A method for use in a system for transmitting and receiving data packets formatted in IEEE 1394 standard, the method comprising steps of:

receiving data over an internal bus, which is connected to a first interface and a second interface, a first device is connected to the first interface and uses a broadcast channel and a second device is connected to the second interface and uses the broadcast channel; and

routing the data to either the first or second interface based on the received data using an identification (ID) header other than a 1394 header, the ID header containing information about the data and identification information corresponding to one of the first and second device determined based at least in part on a transmitting device ~~which transmitted the data~~, and wherein the 1394 header is built based on information contained in the ID header.

Referring to claim 35:

A method for use in a system for transmitting and receiving data packets formatted in IEEE 1394 standard, the method comprising the steps of:

receiving data from an internal bus, which is connected to a first interface and a second interfaces, a first device is connected to the first interface and uses a broadcast channel and a second device is connected to the second interface and uses the broadcast channel,

attaching an identification (ID) header and a subheader to the received data;

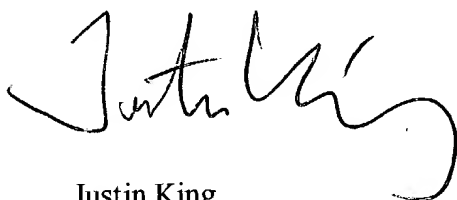
retransmitting the received data with the IID header and subheader onto the bus;

receiving data with the ID header and subheader attached thereto;

Art Unit: 2111

interpreting the ID header and subheader to identify which of the first or second interfaces should receive the data and which broadcast channel in the identified interface should receive the data; and

transmitting the data over the bus to the identified interface, wherein the ID header is other than a 1394 header formatted in IEEE 1394 standard and contains information about the data and identification information corresponding to a recipient device determined based at least in part on a transmitting device ~~which transmitted the data~~; and wherein the 1394 header is built based on information contained in the ID header.



Justin King
July 20, 2004



XUAN M. THAI
PRIMARY EXAMINER
TC2100

Allowable Subject Matter

3. Claims 1-19 and 24-38 are allowed.

4. The following is an examiner's statement of reasons for allowance:

Referring to claim 1: The prior arts on the record do not disclose or explicitly disclose transmitting and receiving data packet formatted in IEEE 1394, wherein a controller attaches an ID header to the data includes identification information corresponding to a recipient device determined based at least in part on the transmitting device.

Referring to claims 2-10: Claims are allowable because they incorporate the parent claim's allowable subject matter.

Referring to claim 11: The prior arts on the record do not disclose or explicitly disclose transmitting and receiving data packet formatted in IEEE 1394 on a same broadcast channel, wherein a controller attaches an ID header to the data includes identification information corresponding to a recipient device determined based at least in part on the transmitting device.

Referring to claims 12-19: Claims are allowable because they incorporate the parent claim's allowable subject matter.

Referring to claim 24: The prior arts on the record do not disclose or explicitly disclose transmitting and receiving data packet formatted in IEEE 1394 on a same broadcast channel, wherein a controller attaches an ID header to the data includes identification information corresponding to a recipient device determined based at least in part on the transmitting device.

Referring to claims 25-32: Claims are allowable because they incorporate the parent claim's allowable subject matter.

Art Unit: 2111

Referring to claims 33-38: The prior arts on the record do not disclose or explicitly disclose transmitting and receiving data packet formatted in IEEE 1394 on a same broadcast channel, wherein a controller attaches an ID header to the data includes identification information corresponding to a recipient device determined based at least in part on the transmitting device.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

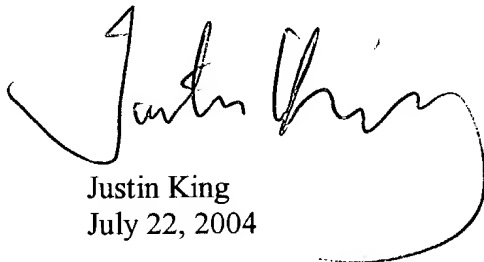
Art Unit: 2111

Conclusion


6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin I. King whose telephone number is 703-305-4571. The examiner can normally be reached on Monday through Friday, 9:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on 703-308-3110. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Justin King
July 22, 2004



XUAN M. THAI
PRIMARY EXAMINER
TCU100